

Lockheed Analytical Services

Log-in No.: L5169
Quotation No.: Q400000-B
SAF: B95-053
Document File No.: 0822596
BHI Document File No.:264
SDG No.: LK5169
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CASE NARRATIVE INORGANIC NON METALS ANALYSES

The routine calibration and quality control analyses performed for this batch include as applicable: initial and continuing calibration verification, initial and continuing calibration blanks, method blank(s), laboratory control sample(s), matrix spike (predigestion) sample(s), duplicate sample(s).

Preparation and Analysis Requirements

- One water sample was received for LK5169 and analyzed in batch 822 bh for selected analytes as requested on the chain of custody. Quality control analysis was performed on the following sample:

Client ID	LAL #		Method
BOG947	L5169-3	MS, DUP	7196 Hexavalent Chromium

Holding Time Requirements

- The sample was received outside of holding time and the associated sample is flagged with an "H".

Method Blanks

- The concentration levels of all the requested analytes in the method blank were below the reporting detection limits.

Internal Quality Control

- All Internal Quality Control were within acceptance limits.

Kay McCann
Prepared By

August 25, 1995
Date



CASE NARRATIVE INORGANIC METALS ANALYSES

The routine calibration and quality control analyses performed for this batch include as applicable: instrument tune (ICP/MS only), initial and continuing calibration verification, initial and continuing calibration blanks, method blank(s), laboratory control sample(s), ICP interference check samples (ICP only), serial dilutions, analytical (post-digestion) spike samples, matrix spike (predigestion) sample(s), duplicate sample(s).

Preparation and Analysis Requirements

All samples were received on August 22, 1995. The samples were logged in as L5169 and were prepared and analyzed in batch 822 bh.

Holding Time Requirements

- All samples were analyzed within the method-specific holding times.

Method Blanks

- The concentration levels of all the requested analytes in the method blank were below the reporting detection limits.

Internal Quality Control

- All Internal Quality Control were within acceptance limits.

Shellee McGrath
Prepared By

September 12, 1995
Date

LOCKHEED ANALYTICAL SERVICES
LOGIN CHAIN OF CUSTODY REPORT (ln01)
Aug 22 1995, 12:52 pm

Login Number: L5169
Account: 596 Bechtel Hanford, Inc. * Richland, WA
Project: BECHTEL-HANFORD Bechtel Hanford Project

Laboratory Sample Number	Client Sample Number	Collect Date	Receive Date	Due PR Date
L5169-1	B0G947	18-AUG-95	22-AUG-95	26-SEP-95
TEMP 2	"SAF # B95-053"			
Location: 157				
Water 1	S SCREENING	Hold:14-FEB-96		
L5169-2	B0G947	18-AUG-95	22-AUG-95	26-SEP-95
TEMP 2	"SAF # B95-053"			
Location: 157				
Water 1	S 218.2 CHROMIUM	Hold:14-FEB-96		
L5169-3	B0G947	18-AUG-95	22-AUG-95	26-SEP-95
TEMP 2	"SAF # B95-053"			
Location: 157				
Water 1	S 7196 CHROMIUM (VI)	Hold:19-AUG-95		
L5169-4	REPORT TYPE	22-AUG-95	22-AUG-95	26-SEP-95
Location:				
Water 1	S EDD - DISK DEL.			
Water 1	S INORG TYPE 2 RPT			

Signature: Paul Davis

Date: 8-22-95

0009

0822546

L5169

Westinghouse Hanford
Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

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Data Turnaround

☐ Priority
☒ Normal

Collector Doug Bowers / <u>STEVE GUREK</u>	Company Contact Dave Blumenkranz	Telephone No. 372-9658
Project Designation 100 HR-3 Treatability Study	Sampling Location 100 D	SAF No. 895-053
Ice Chest No. <u>5M643</u>	Field Logbook No. <u>V1A</u>	Method of Shipment Air Freight
Shipped To Lockheed	Offsite Property No. <u>W950-0201-47</u>	Bill of Lading/Air Bill No. <u>2904638247</u>
Possible Sample Hazards/Remarks unknown	Preservative HNO3 none none none	
	Type of Container G/P G/P P/G P/G	
	No. of Container(s) 1 1 1 1	
Special Handling and/or Storage cool to 4 C	Volume 500 mL 500 mL 20 mL 20 mL	
	Chrom-ium - Total	Chrom-ium VI
	Activ-ity Scan	Rad Screen
SAMPLE ANALYSIS		

Sample No.	Matrix*	Date Sampled	Time Sampled																
B06947	W	8/18/95	1112	X	X	X													

CHAIN OF POSSESSION		Sign/Print Names		SPECIAL INSTRUCTIONS		Matrix*	
Relinquished By <u>STEVEN GUREK</u>	Date/Time 8/18/95 1330	Received By <u>Paul Whitten</u>	Date/Time 8/18/95	Analysis for Chromium (VI) by SW -846 7196 is being requested for information only. The ERC Contractor acknowledges the 24-hour holding time will not be met.		S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other	
Relinquished By <u>ERC</u>	Date/Time 0845	Received By	Date/Time				
Relinquished By <u>Paul Whitten</u>	Date/Time 8-21-95	Received By	Date/Time				
Relinquished By	Date/Time	Received By	Date/Time				
LABORATORY SECTION	Received By <u>Amiller</u>	Title Sample Custodian	Date/Time 8-22-95 / 0845				
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time				

SAMPLE CHECK-IN LIST

Date/Time Received: 8-22-95 / 0645SDG#: 11/11

Work Order Number: _____

SAF #: B95-053Shipping Container ID: SML-43 Chain of Custody #: 11/11

1. Custody Seals on shipping container intact? Yes ☒ No ☐
2. Custody Seals dated and signed? Yes ☒ No ☐
3. Sample temperature 2°C
4. Vermiculite/packing materials is Wet ☐ Dry ☒
5. Each sample is in a plastic bag? Yes ☒ No ☐
6. Sample holding times exceeded? Yes ☒ No ☐

7. Samples have:
_____ tape _____ hazard labels
☒ custody seals _____ appropriate sample labels

8. Samples are:
☒ in good condition _____ leaking
_____ broken _____ have air bubbles

9. Is the information on the COC and Sample bottles in agreement?

Yes ☒No ☐Notes: 7196 Chromium passed Holding Time.Sample Custodian/Laboratory: Paul C. Davis Date: 8-22-95FAXED
Telephoned To: Kathleen Hall On 8-22-95 By Paul C. Davis
PCA 8-31-95

Lockheed Analytical Laboratory
SAMPLE SUMMARY REPORT (su02)
Bechtel Hanford, Inc. * Richland, WA

Client	LAL	SDG		
Sample Number	Sample Number	Number	Matrix	Method
BOG947 —	L5169-1		Water	SCREENING —
	L5169-2		Water	218.2 CHROMIUM —
	L5169-3		Water	7196 CHROMIUM (V)
REPORT TYPE —	L5169-4		Water	EDD — DISK DEL.
	L5169-4		Water	INORG TYPE 2 RPT

0015

0822590

LOCKHEED ANALYTICAL SERVICES

Sample Results

Client Sample ID: B0G947	Date Collected: 18-AUG-95
Matrix: Water	Date Received: 22-AUG-95
Percent Solids: N/A	

Constituent	Units	Method	Result	Project Reporting Limit	Data Qualifier(s)	Date Analyzed	LAS Batch ID	LAS Sample ID
Chromium, hexavalent	mg/L	7196	0.39	0.040	HD(1:2)	23-AUG-95	26557	L5169-3

LOCKHEED ANALYTICAL SERVICES

Sample Results

Client Sample ID: B0G947	Date Collected: 18-AUG-95
Matrix: Water	Date Received: 22-AUG-95
Percent Solids: N/A	

Constituent	Units	Method	Result	Project Reporting Limit	Data Qual	Dilution	Date Analyzed	LAS Batch ID	LAS Sample ID
Chromium, Total	mg/L	218.2	0.32	0.0010		10	11-SEP-95	26566	L5169-2